



Figure similar

SIMATIC DP, Electronic modules for ET 200 PRO 4 AO I High Feature, ± 20 mA; 0...20 mA; 4-20mA; Channel diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes; against destruction
Input current	
from supply voltage 1L+, max.	110 mA
from backplane bus 3.3 V DC, max.	10 mA
Actuator supply	
Number of outputs	4
Short-circuit protection	Yes; per module
Output current	
• up to 55 °C, max.	1 A
Power loss	
Power loss, typ.	2.3 W
Address area	
Address space per module	
• Address space per module, max.	8 byte
Analog outputs	
Number of analog outputs	4
Voltage output, short-circuit protection	Yes; per module, electronic to frame
Current output, no-load voltage, max.	16 V
Cycle time (all channels) max.	3 ms
Output ranges, current	
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
• for current output two-wire connection	Yes
• for current output four-wire connection	Yes
Load impedance (in rated range of output)	
• with current outputs, max.	600 Ω
• with current outputs, inductive load, max.	1 mH
Destruction limits against externally applied voltages and currents	
• Current, max.	100 mA
Cable length	
• shielded, max.	30 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	15 bit; at ± 20 mA; 14 bit at 0 to 20 mA; 15 bit at 4 to 20 mA
• Conversion time (per channel)	0.7 ms

Settling time			
• for resistive load		0.1 ms	
• for inductive load		1 ms	
Errors/accuracies			
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)		0.02 %	
Linearity error (relative to output range), (+/-)		0.1 %	
Temperature error (relative to output range), (+/-)		0.01 %/K	
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)		0.05 %	
Operational error limit in overall temperature range			
• Current, relative to output range, (+/-)		0.2 %	
Basic error limit (operational limit at 25 °C)			
• Current, relative to output range, (+/-)		0.15 %	
Interrupts/diagnostics/status information			
Diagnostics function		Yes	
Substitute values connectable		Yes	
Alarms			
• Diagnostic alarm		Yes; Parameterizable	
• Hardware interrupt		No	
Diagnoses			
• Diagnostic information readable		Yes	
• Wire-break		Yes; per channel, not in zero range	
• Short-circuit		No	
Diagnostics indication LED			
• Group error SF (red)		Yes	
Potential separation			
Potential separation analog outputs			
• between the channels		No	
• between the channels and backplane bus		Yes	
Isolation			
Isolation tested with		707 V DC (type test)	
Dimensions			
Width		45 mm	
Height		130 mm	
Depth		35 mm	
Weights			
Weight, approx.		150 g	
Classifications			
		Version	Classification
	eClass	14	27-24-26-01
	eClass	12	27-24-26-01
	eClass	9.1	27-24-26-01
	eClass	9	27-24-26-01
	eClass	8	27-24-26-01
	eClass	7.1	27-24-26-01
	eClass	6	27-24-26-01
	ETIM	10	EC001596
	ETIM	9	EC001596
	ETIM	8	EC001596
	ETIM	7	EC001596
	IDEA	4	3562
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval			

[Miscellaneous](#)

[Manufacturer Declaration](#)



[Metrological Approval](#)

General Product Approval

Maritime application



[KC](#)



Maritime application

[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)



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